U.S. Appln. No. 09/785,237

Attorney Docket No.: Q63062

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A system operable to generate a message related to a control unit

of an automation system, the system comprising:

a data transmission system in communication with the control unit and in further

communication with a receiving device,

wherein the message is an e-mail message generated in response to an operation of the

automation system and the data transmission system is an Intranet and/or the Internet and the

control unit comprises means for generating the message for a specific receiving device

addressable with a pre-defined address and, wherein further the message has an address field to

identify a recipient of the corresponding message, and the receiving device has means to receive

the message sent by the control unit and automatically respond to the message,

wherein the control unit monitors and controls operation of the automation system and in

response to a fault detected in the automation system, generates the e-mail message, and

wherein the automation system comprises equipment of a production or a manufacturing

process.

2. (original): The system as claimed in claim 1, wherein the message has an

identification field for inserting a message identification that is individually assigned to each

message and the control unit comprises means to receive an acknowledgment returned by the

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receiving device which is intended for the control unit, said acknowledgment comprising the

identification associated with the message as an acknowledgment identification, and the control

unit further comprising means to compare the acknowledgment identification contained in

acknowledgment with the message identification contained in the transmitted message.

3. (original): A system as claimed in claim 2, wherein the control unit further comprises

means for marking the message as acknowledged if the means to compare determines that the

control unit has received an acknowledgment with the message identification assigned to the

associated transmitted message.

4. (original): A system as claimed in claim 1, wherein the control unit is a stored-

program control unit.

5. (previously presented): A control unit of an automation system comprising a

transmitting device operable to generate and transmit an alarm or fault message of the

automation system, via a data transmission system, to a receiving device capable of being linked

to said data transmission system, wherein the transmitting device comprises means to generate

the message as an e-mail message directed through the data transmission system embodied as an

Intranet and/or the Internet, wherein the message comprises an address field to identify a

recipient of the corresponding message and wherein the automation system comprises equipment

of a production or a manufacturing process.

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6. (original): A control unit as claimed in claim 5, wherein said control unit is a stored-

program control unit.

7. (original): A control unit as claimed in claim 5, wherein the message comprises an

identification field for a message identification individually assigned to each message, the

control unit further comprising;

means to receive an acknowledgment returned by the receiving device to the control unit,

said acknowledgment comprising the identification associated with the underlying message as

the acknowledgment identification, and

means to compare the identification contained in the acknowledgment with the

identification contained in the transmitted message.

8. (previously presented): A method for producing a message of a control unit of an

automation system, the method comprising:

sending the message via a data system to a receiving device capable of being linked to the

data system, wherein the message is an e-mail message transmitted via an Intranet and/or the

Internet to a predetermined receiving device, and wherein the e-mail message is generated in

response to an operation of the automation system, and

wherein the automation system comprises equipment of a production or a manufacturing

process.

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9. (original): The method as claimed in claim 8, wherein the control unit enters a

message identification individually assigned to each message into an identification field of the

message and the receiving device, after receipt of a message, automatically generates and returns

an acknowledgment to the control unit, wherein said acknowledgment contains the identification

associated with the underlying message as the acknowledgment identification, and the control

unit compares the acknowledgment identification contained in the acknowledgment with the

message identification contained in the transmitted message.

10. (original): The method as claimed in claim 7, wherein receipt of a message is

confirmed in the control unit if the control unit received an acknowledgment with the message

identification assigned to the associated message.

11. (original): The method as claimed in claim 7, wherein the method is used to generate

a fault and/or alarm message of a stored-program control unit, a numerical control unit and/or a

robot control unit in connection with an automation system.

12. - 26. (canceled).

27. (previously presented): The system according to claim 1, wherein the

acknowledgement message provides the control unit with instructions to execute a predetermined

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action in response to the detected fault.

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28. (previously presented): The system according to claim 1, wherein the response to the

message comprises control commands in a programming language and wherein said control

commands influence at least one operation of the automation system.

29. (previously presented): The system according to claim 28, wherein the control

commands are automatically executed by the control unit.

30. (previously presented): The system according to claim 1, wherein when the control

unit receives the response from the receiving device, the status of the e-mail message is

automatically changed to acknowledged enabling management of the e-mail message.

31. (previously presented): The system according to claim 1, wherein the e-mail message

is an alarm message generated in response to the operation of the automation system when the

control unit detects at least one of a fault occurring in the automation system and an attainment

of a predetermined threshold related to the operation of the automation system.

32. (previously presented): The system according to claim 1, wherein the receiving

device automatically responds to the message by sending the control unit a reply message and

wherein the control unit is a numerical controller.